

Sequence Alignment

RESULT 2
 AAY50932
 ID AAY50932 standard; Protein; 441 AA.
 XX
 AC AAY50932;
 XX
 DT 10-MAR-2000 (first entry)
 XX
 DE Human fetal brain cDNA clone vc26_1 derived protein #1.
 XX
 KW Human; secreted protein; treatment; nutritional activity; cytokine;
 KW cell proliferation; cell differentiation; hematopoiesis regulation;
 KW tissue growth; activin; inhibin; chemotactic; chemokinetic; hemostatic;
 KW thrombolytic; anti-inflammatory; invasion suppressor; tumor inhibition;
 KW gene therapy.
 XX
 OS Homo sapiens.
 XX
 PN W09955721-A1.
 XX
 PD 04-NOV-1999.
 XX
 PF 23-APR-1999; 99WO-US08504.
 XX
 PR 24-APR-1998; 98US-0082904.
 PR 11-JUN-1998; 98US-0088994.
 PR 12-JUN-1998; 98US-0089278.
 PR 02-JUL-1998; 98US-0091647.
 PR 24-AUG-1998; 98US-0097639.
 PR 22-APR-1999; 99US-0097639.
 XX
 PA (ALPH-) ALPHAGENE INC.
 XX
 PI Valenzuela D, Yuan O, Hoffman H, Hall J, Rapiejko P;
 XX
 DR WPI; 2000-052801/04.
 DR N-PSDB; AAZ43798.
 XX
 PT New polynucleotides encoding secreted human proteins, derived from
 PT human fetal brain, adult skin, adult brain, adult heart, adult thymus
 PT and adult aorta cDNA libraries.
 XX
 PS Claim 53a; Page 246-247; 282pp; English.
 XX
 CC This invention describes novel human secreted proteins which are encoded
 CC by polynucleotides obtained from fetal brain, adult skin, adult brain,
 CC adult heart, adult thymus and adult aorta cDNA libraries. The
 CC polynucleotides and proteins are predicted to have biological activities
 CC which would make them suitable for treating, preventing or ameliorating
 CC medical conditions in humans and animals, although no supporting data
 CC is given. Suggested activities include nutritional activity, cytokine
 CC and cell proliferation/differentiation activity, immune stimulating
 CC (e.g. as vaccines) or suppressing activity, hematopoiesis regulating
 CC activity, tissue growth activity, activin/inhibin activity,
 CC chemotactic/chemokinetic activity, hemostatic and thrombolytic activity,
 CC receptor/ligand activity, anti-inflammatory activity, cadherin/tumor
 CC invasion suppressor activity, and tumor inhibition activity. The
 CC polynucleotides are also stated to be useful for gene therapy.
 CC AAY50905-Y50947 represent the secreted proteins described in the method
 CC of the invention which are encoded by the polynucleotides represented in
 CC AAZ43777-243808.
 XX
 SQ Sequence 441 AA;

Query Match 100.0%; Score 2326; DB 21; Length 441;
 Best Local Similarity 100.0%; Pred. No. 6.5e-241;
 Matches 441; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MAIHKALVMCLGLPLFLFPGAWAQGHVPPGCSQGLNPLYYNLCDRSGAWGIVLEAVAGAG	60
Db	1	maihkalvmclglplflfpgawaqghvppgcsqglnplyynlcdrsgawgivleavagag	60
QY	61	IVTTFVLTIILVASLPFVQDTKKRSLGLTQVFFLLGLTGLFCLVFCVVKPDFSTCASRR	120
Db	61	ivttfvltilvaslpfvqdtkkrsllgtqvffllgtlglfclvfcvvpkpdfstcasrr	120
QY	121	FLFGVLFAICFSCLAHVFLNLFARKNHGPRGWVIFTVALLLTLVEVIINTEWLIITLV	180
Db	121	flfgvlfaicfsclaahvfalnflarknhgprgwwiftvallltlveviintewliitlv	180
QY	181	RSGEGGPGQGNSSAGWAVASPCAIANMDFVMALIYVMLLLGAFGLGAWPALCGRYKRWK	240
Db	181	rgsgeggpgqgnssagwavaspcaianmdfvmaliyvmllllgafglgawpalcgryrkrwk	240
QY	241	HGVFVLLTTATSVAIWVWVIMVMTYGNKQHNSPTWDDPTLAIALAANAWAFVLFYVPIEV	300
Db	241	hgvfvllttatsvaiwvwvwmvmtygknqhsptwddptlaialaanawafvlfyvihev	300
QY	301	SOVTKSSPEQSYQGDMPYTRGVGYETILKEQKQSMFVENKAFSMDPEVAAKRPVSPYSG	360
Db	301	sovtksspeqsyqgdmpytrgvgyetilkeqkgqsmfvenkafsmdepvaakrpvspyysg	360
QY	361	YNGQLLTSVYQPTMALMHKVPSEGAYDIILPRATANSQVMGSANSTLRAEDMYSAQSHQ	420
Db	361	ynqqltstvypqtemalmhkvpssegaydiilpratansqvmgsanstlraedmysaqshq	420
QY	421	AATPPKDGKNSQVFRNPYVWD	441
Db	421	aatppkdgknsqvfrnpyvwd	441

RESULT 3

AAZ43798

ID AAZ43798 standard; cDNA; 1936 BP.

XX

AC AAZ43798;

XX

DT 10-MAR-2000 (first entry)

XX

DE Human fetal brain cDNA clone vc26_1.

XX

KW Human; secreted protein; treatment; nutritional activity; cytokine;
cell proliferation; cell differentiation; hematopoiesis regulation;

KW tissue growth; activin; inhibin; chemotactic; chemokinetic; hemostatic;
thrombolytic; anti-inflammatory; invasion suppressor; tumor inhibition;
gene therapy; ds.

XX

OS Homo sapiens.

XX

PN WO9955721-A1.

XX

PD 04-NOV-1999.

XX

PF 23-APR-1999; 99WO-US08504.

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PR

PR 12-JUN-1998; 98US-0089278.

PR

PR 02-JUL-1998; 98US-0091647.

PR

PR 24-AUG-1998; 98US-0097639.

PR

PR 22-APR-1999; 99US-0097639.

XX

PA (ALPH-) ALPHAGENE INC.

XX

PI Valenzuela D, Yuan O, Hoffman H, Hall J, Rapiejko P;

XX

DR WPI; 2000-052801/04.

DR

P-PSDB; AAY50932, AAY50933.

XX

PT New polynucleotides encoding secreted human proteins, derived from

PT

PT human fetal brain, adult skin, adult brain, adult heart, adult thymus

PT

PT and adult aorta cDNA libraries.

XX

PS Claim 52a; Page 245-246; 282pp; English.

XX

CC This invention describes novel human secreted proteins which are encoded

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CC by polynucleotides obtained from fetal brain, adult skin, adult brain,

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CC adult heart, adult thymus and adult aorta cDNA libraries. The

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CC (e.g. as vaccines) or suppressing activity, hematopoiesis regulating

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CC activity, tissue growth activity, activin/inhibin activity,

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CC chemotactic/chemokinetic activity, hemostatic and thrombolytic activity,

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CC receptor/ligand activity, anti-inflammatory activity, cadherin/tumor

CC

CC invasion suppressor activity, and tumor inhibition activity. The

CC

CC polynucleotides are also stated to be useful for gene therapy.

CC

CC AAZ43777-243808 represent the polynucleotides described in the invention

CC

CC which encode the proteins represented in AAY50905-Y50947.

XX

SQ Sequence 1936 BP; 449 A; 581 C; 532 G; 374 T; 0 other;

XX

Query Match 98.9%; Score 1798.8; DB 21; Length 1936;

Best Local Similarity 99.6%; Pred. No. 0;

Matches 1803; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 10 ccctcaccagccggaaagtacgagtcggctcagcctggaggacccaaccagagcctggc 69

Db 15 ccctcaccagccggaaagtacgagtcggctcagcctggaggacccaaccagagcctggc 74

Qy 70 ctgggagccaggatggccatccacaagccttggtgatgtgcctgggactgcctctcttc 129

Db 75 ctgggagccaggatggccatccacaagccttggtgatgtgcctgggactgcctctcttc 134

Qy 130 ctgttcccagggcctggggccaggccatgtcccaccggctgcagccaaggcctcaac 189

Db 135 ctgttcccagggcctggggccaggccatgtcccaccggctgcagccaaggcctcaac 194

Qy 190 cccctgtactacaacctgtgtgaccgctctggggcgtggggcatcgtcctggaggccgtg 249

Db 195 cccctgtactacaacctgtgtgaccgctctggggcgtggggcatcgtcctggaggccgtg 254

Qy 250 gctggggcgggcattgtcaccacgtttgtgctcaccatcatcctggtggccagcctcccc 309

Db 255 gctggggcggcattgtccacacggtttgtctcacatcatctgtgtggcagcctcccc 314
QY 310 ttgtgcaggacacaaagagcgtctgtgggaccagagttattctctcttctgggg 369
Db 315 ttgtgcaggacacaaagagcgtctgtgggaccagagttattctctcttctgggg 374
QY 370 acctgggcctctctgcctctgtgtttgctgtgtgtgaagcccgacttctccacctgt 429
Db 375 acctgggcctctctgcctctgtgtttgctgtgtgtgaagcccgacttctccacctgt 434
QY 430 gctctcgggcctctctcttctgggtctgtgtgcctatctgtctctcttctgtggcgct 489
Db 435 gctctcgggcctctctcttctgggtctgtgtgcctatctgtctctcttctgtggcgct 494
QY 490 cactgttttgcctcaacttctgtggccggaagaaacacagggcccccggggtgtgtatc 549
Db 495 caogtatttgcctcaacttctgtggccggaagaaacacagggcccccggggtgtgtatc 554
QY 550 ttaactgtgtctgtctgtgacctgttagaggtcatcatcatcaatacacagagtgctgac 609
Db 555 ttaactgtgtctgtctgtgacctgttagaggtcatcatcatcaatacacagagtgctgac 614
QY 610 ataacctgtgttggggcagtgcgagggcgccctcaggggcaacagcagcgaggtgg 669
Db 615 ataacctgtgttggggcagtgcgagggcgccctcaggggcaacagcagcgaggtgg 674
QY 670 gccgtggcctccccctgtgcctacgcacacatggaattgtctatgcactcatctacgtc 729
Db 675 gccgtggcctccccctgtgcctacgcacacatggaattgtctatgcactcatctacgtc 734
QY 730 atgtctgtctgtctgtgtgcttctggggcgctggcgcccgctgtgtggccgctacaag 789
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QY 790 cgtgcgtgaagcatgggtcttctgtctctcaccacagccacctccctgtgcatatgg 849
Db 795 cgtgcgtgaagcatgggtcttctgtctctcaccacagccacctccctgtgcatatgg 854
QY 850 gtgggtgtgatcgtatgtatattacgtacgacacacagcagacagtcacacgtccacgtggat 909
Db 855 gtgggtgtgatcgtatgtatattacgtacgacacacagcagacagtcacacgtggat 914
QY 910 gacccacagctggccatcgccctcgccgccaatgcctggcgcttctctctctacgtc 969
Db 915 gacccacagctggccatcgccctcgccgccaatgcctggcgcttctctctctacgtc 974
QY 970 atccccaggtctccaggtgacaaagtccagccagagcaaaagctaccagggggacatg 1029
Db 975 atccccaggtctccaggtgacaaagtccagccagagcaaaagctaccagggggacatg 1034
QY 1030 taccccacccggcggtgggtatgagaccatctctgaagagcagaggggtcagagcatg 1089
Db 1035 taccccacccggcggtgggtatgagaccatctctgaagagcagaggggtcagagcatg 1094
QY 1090 ttctgtgagaacaagcccttttccatggatgagcgggtgagcgtgaagcgggtgta 1149
Db 1095 ttctgtgagaacaagcccttttccatggatgagcgggtgagcgtgaagcgggtgta 1154
QY 1150 ccatacagcgggtacaaatggcgagctgctgaccaggtgtgtaccagccactgagatggcc 1209
Db 1155 ccatacagcgggtacaaatggcgagctgctgaccaggtgtgtaccagccactgagatggcc 1214
QY 1210 ctgatgcacaaagtctcgtccgaagagcttacgacatcatctctccacgggcccacggcc 1269
Db 1215 ctgatgcacaaagtctcgtccgaagagcttacgacatcatctctccacgggcccacggcc 1274
QY 1270 aacagccaggtgatggcagtgccactgacacctgacacctgacacctgactcgcc 1329
Db 1275 aacagccaggtgatggcagtgccactgacacctgacacctgacacctgactcgcc 1334
QY 1330 cagagccacagcgccgcccacccgcaagacggaagacggaagacgtctcaggtctttagaac 1389

Db 1335 cagagccacagcgggccacacgcgcgaagacggaagactctcaggtctttagaac 1394
QY 1390 cctacgtgtgggactgagtcagcggtgagcagagagagcggtcagattttggggagggcc 1449
Db 1395 cctacgtgtgggactgagtcagcggtgagcagagagagcggtcagattttggggagggcc 1454
QY 1450 ctgagagacctggcccgggcaaggggactctccaggtctctctccctccctctggcagcccg 1509
Db 1455 ctgagagacctggcccgggcaaggggactctccaggtctctctccctccctctggcagcccg 1514
QY 1510 caacatgtgccccagagatgtggaagggcctctctctctctctgaggtgtttgggtgggtgtcat 1569
Db 1515 caacatgtgccccagagatgtggaagggcctctctctctctgaggtgtttgggtgggtgtcat 1574
QY 1570 ggggtgccccacccactctctcagttgtttgtgaggtcagagagcaaccccgactctctgc 1629
Db 1575 ggggtgccccacccactctctcagttgtttgtgaggtcagagagcaaccccgactctctgc 1634
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Db 1635 caggatcacctcggcggtcacactccagcacaatagtttctcgggtgtgtggctgggca 1694
QY 1690 ggccttatgtttctctggagattctctgcaacctcaagagagacttcccagggcgctcagccct 1749
Db 1695 ggccttatgtttctctggagattctctgcaacctcaagagagacttcccagggcgctcagccct 1754
QY 1750 ggaatctgtctctctgtgaggaacaaggggtgcttaataatacatattctgtcttattaac 1809
Db 1755 ggaatctgtctctctgtgaggaacaaggggtgcttaataatacatattctgtcttataaaa 1814
QY 1810 tcttaaaaaa 1819
Db 1815 aaaaaaaaaa 1824

Sequence Alignment

RESULT 8

Page 4

US-10-097-065-146

; Sequence 146, Application US/10097065
; Publication No. US20030055236A1

GENERAL INFORMATION:

; APPLICANT: Moore, Paul A. et al.
; TITLE OF INVENTION: 110 Human Secreted Proteins
; FILE REFERENCE: PZ021P1
; CURRENT APPLICATION NUMBER: US/10/097,065
; CURRENT FILING DATE: 2002-03-14
; PRIOR APPLICATION NUMBER: PCT/US98/27059
; PRIOR FILING DATE: 1998-12-17
; PRIOR APPLICATION NUMBER: 60/070,923
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,007
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,057
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,006
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,369
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,367
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,368
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,169
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,053
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,064
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,054
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,008
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,365
; PRIOR FILING DATE: 1997-12-19
; NUMBER OF SEQ ID NOS: 672
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 146
; LENGTH: 400
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (400)
; OTHER INFORMATION: Xaa equals stop translation
US-10-097-065-146

Query Match 87.1%; Score 384; DB 9; Length 400;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 384; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MAIHKALVMCLGLPLFLPGAWAQGHVPPGCSQGLNPLYYNLCDRSGAWGIVLEAVAGAG	60
Db	1	MAIHKALVMCLGLPLFLPGAWAQGHVPPGCSQGLNPLYYNLCDRSGAWGIVLEAVAGAG	60
QY	61	IVTTFVLTIIILVASLPFVQDTKKRSLLGTVFLLGLTGLFCLVFACVVKPDFSTCASRR	120
Db	61	IVTTFVLTIIILVASLPFVQDTKKRSLLGTVFLLGLTGLFCLVFACVVKPDFSTCASRR	120
QY	121	FLFGVLFAICFSCLAHVAFALNFLARKNHGPRGWVIFTVALLTLVEVIINTEWLIITLV	180
Db	121	FLFGVLFAICFSCLAHVAFALNFLARKNHGPRGWVIFTVALLTLVEVIINTEWLIITLV	180
QY	181	RSGEGGPQGNSSAGWAVASPCAIAANMDFVMALIYVMLLLGAFLGAWPALCGRYKRWK	240
Db	181	RSGEGGPQGNSSAGWAVASPCAIAANMDFVMALIYVMLLLGAFLGAWPALCGRYKRWK	240
QY	241	HGVFVLLTTATSVAIWVWVIMYTYGNKQHNSTWDDPTLAIALAANAWAFVLFYVIPEV	300
Db	241	HGVFVLLTTATSVAIWVWVIMYTYGNKQHNSTWDDPTLAIALAANAWAFVLFYVIPEV	300
QY	301	SQVTKSSPEQSYQGDMPYTRGVGYETILKEQKQSMFVENKAFSMDPEVAAKRPVSPYSG	360
Db	301	SQVTKSSPEQSYQGDMPYTRGVGYETILKEQKQSMFVENKAFSMDPEVAAKRPVSPYSG	360
QY	361	YNGQLLTSVIQPTMALMHKVPSE	384
Db	361	YNGQLLTSVIQPTMALMHKVPSE	384